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	0275739	1997-30-0565D1

**INFORMATION DISCLOSURE STATEMENT
BY APPLICANT**

Applicant: REFF *et al.*

Appln. No.: 09/292,053

Filing Date: April 14, 1999

Date: October 30, 2003 Page 1 of 4

Examiner: P. Huynh

Group Art Unit: 1644

U.S. PATENT DOCUMENTS

Examiner's Initials*		Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date
Pak	AR	4,975,369	12/1990	Beavers <i>et al.</i>			
	BR	5,348,876	09/1994	Michaelson <i>et al.</i>			
	CR	5,543,144	08/1996	Chang <i>et al.</i>			
	DR	5,585,089	12/1996	Queen <i>et al.</i>			
	ER	5,648,260	07/1997	Winter <i>et al.</i>			
	FR	5,648,267	07/1997	Reff			
	GR	5,658,570	08/1997	Newman <i>et al.</i>			
	HR	5,811,524	09/1998	Brams <i>et al.</i>			
	IR	6,011,138	01/2000	Reff <i>et al.</i>			
✓	JR	6,635,600	06/1997	Fanger <i>et al.</i>			

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FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
						ENCLOSED	NO
Pak	KR	WO 96/12741	05/1996	WIPO	Glaxo Group Ltd.		
	LR	WO 96/12742	05/1996	WIPO	Glaxo Group Ltd.		
	MR	WO 89/00138	01/1989	WIPO	Gunnar Strömberg		
	NR	WO 92/17207	10/1992	WIPO	Tanox Biosystems Inc.		
	OR	WO 93/02108	02/1993	WIPO	IDEC Pharmaceuticals Inc.		
	PR	WO 88/06891	09/1988	WIPO	Aktiebolaget Astra		
✓	QR	WO 87/07302	12/1987	WIPO	Laboratoires Unicet		

OTHER

Pak	RR	Rector <i>et al.</i> , "Detection and characterization of monoclonal antibodies specific to IgE receptors on human lymphocytes by flow cytometry", <i>Immunol.</i> , 55: 481-488 (1985).
	SR	Suemura <i>et al.</i> , "Monoclonal anti-Fc epsilon receptor antibodies with different specificities and studies on the expression of Fc epsilon receptors on human B and T cells", <i>J. Immunol.</i> , 137: 1214-1220 (1986).
	TR	Noro <i>et al.</i> , "Monoclonal antibody (H107) inhibiting IgE binding to Fc epsilon R(+) human lymphocytes", <i>J. Immunol.</i> , 137: 1258-1263 (1986).
	UR	Yu <i>et al.</i> , "Negative feedback regulation of IgE synthesis by murine CD23", <i>Nature</i> 369: 753-756 (1994).
	VR	Bonnefoy <i>et al.</i> , "Regulation of IgE synthesis by CD23/CD21 interaction", <i>Int. Arch. Allergy Immunol.</i> , 107:40-42 (1995).
	WR	Grosjean <i>et al.</i> , "CD23/CD21 interaction is required for presentation of soluble protein antigen by lymphoblastoid B cell lines to specific CD4+ T cell clones", <i>Eur. J. Immunol.</i> , 24: 2982-2988 (1994).
	XR	Pene <i>et al.</i> , "Interleukin 5 enhances interleukin 4-induced IgE production by normal human B cells. The role of soluble CD23 antigen", <i>Eur J. Immunol.</i> , 18: 929-935 (1988).
	YR	Saxon <i>et al.</i> , "Soluble CD23 containing B cell supernatants induce IgE from peripheral blood B-lymphocytes and costimulate with interleukin-4 in induction of IgE", <i>J. Allergy Clin. Immunol.</i> , 86 (3 pt 1) 333-344 (1990).
✓	ZR	Hassner and Saxon, "Isotype-specific human suppressor T cells for IgE synthesis activated by IgE-anti-IgE immune complexes", <i>J. Immunol.</i> , 132: 2844 (1984).

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Date: October 30, 2003	Page 2 of 4	Applicant: REFF et al.	Appln. No.: 09/292,053
OTHER (Continued)		Client Ref. No.: 997-30-0565D1	Atty. Dkt. No.: 037003-0275739	Examiner: P. Huynh	Group Art Unit: 1644
PJK	AAR	Carr et al., "Mouse x human heterohybridomas as fusion partners with human B cell tumors", J. Immunol. Methods, 89: 61 (1986).			
	BBR	Boerner et al., "Production of antigen-specific human monoclonal antibodies from in vitro-primed human splenocytes", J. Immunol., 147: 86 (1991).			
	CCR	Luo et al., "Cross-linking of CD23 antigen by its natural ligand (IgE) or by anti-CD23 antibody prevents B lymphocyte proliferation and differentiation" J. Immunol., 146(7):2122-9 (1991).			
	DDR	Groves et al., "Production of an ovine monoclonal antibody to testosterone by an interspecies fusion", Hybridoma, vol. 6(1):71 (1987).			
	EER	Robbins, "Diseases of Immunity," Pathologic Basis of Disease, pp. 197-199 (1994).			
	FFR	Seaver, "Monoclonal Antibodies in Industry: More Difficult than Originally Thought," Genetic Engineering, 14(14): 10 and 21 (1994).			
	GGR	Haak-Frendscho et al., "Administration of an anti-IgE antibody inhibits CD23 expression and IgE production in vivo", Immunology, 82:306 (1994).			
	HHR	Delespesse et al., "Human IgE-binding factors", Immunology Today, 10:159, (1989).			
	IIR	Durum and Oppenheim, "Proinflammatory Cytokines and Immunity," Fundamental Immunology, 3rd Edition, Chapter 21, p. 801-835, Raven Press Ltd. (1993).			
	JJR	Vercelli et al., "Induction of human IgE synthesis requires interleukin 4 and T/B cell interactions involving the T cell receptor/CD3 complex and MHC class II antigens", J. Exp. Med., 169:1295 (Apr. 1989).			
	KKR	Presta et al., "Humanization of an antibody directed against IgE", J. Immunology, 151(5):2623 (Sep. 1993).			
	LLR	Strike et al., "Production of human-human hybridomas secreting antibody to sheep erythrocytes after in vitro immunization", J. Immunol., 132(4): 1798 (Apr. 1984).			
	MMR	Cruse et al., Illustrated Dictionary of Immunology, CRC Press, p. 69 (1995).			
	NNR	Capon et al., "Designing CD4 immunoadhesins for AIDS therapy", Nature, 337:525 (Feb. 1989).			
	OOR	Bourget et al., Eur. J. Immunol., 12(7):1872-76 (1995).			
	PPR	Bonnefoy et al., "A new role for CD23 in inflammation", Immunol. Today, 17(9): 418-20 (1996).			
	QQR	Urlaub et al., Somatic Cell and Mol. Genetics, 12(6):555-66 (1986).			
	RRR	Co et al., "Humanized anti-Lewis Y antibodies: in vitro properties and pharmacokinetics in rhesus monkeys", Can. Res., 56:1118-25 (1996).			
	SSR	Ono et al., "Deletion of SHIP or SHP-1 reveals two distinct pathways for inhibitory signaling", Cell, 90:293-301 (1997).			
	TTR	Parren et al., "Characterization of IgG FcR-mediated proliferation of human T cells induced by mouse and human anti-CD3 monoclonal antibodies. Identification of a functional polymorphism to human IgG2 anti-CD3", J. Immunol., 148(3):695-701 (1992).			
	UUR	Steplewski et al., "Biological activity of human-mouse IgG1, IgG2, IgG3, and IgG4 chimeric monoclonal antibodies with antitumor specificity", Proc. Natl. Acad. Sci., 85(13):4852-4856 (1988).			
	VVR	Lund et al., "Human Fc gamma RI and Fc gamma RII interact with distinct but overlapping sites on human IgG", J. Immunol., 147(8):2657-2662 (1991).			
	WVR	Co et al., "Chimeric and humanized antibodies with specificity for the CD33 antigen", J. Immunol., 148(3):1149-1154 (1992).			
	XXR	Shakib et al., "A study of the interrelationship between circulating IgG subclass anti-IgE autoantibodies, IgE and soluble CD23 in asthma", Allergol. Immunopathol., 21(1):20-24 (1993).			
	YYR	Spiegelberg et al., "Fc receptors for IgE and interleukin-4 induced IgE and IgG4 secretion", J. Invest. Dermatol., 94(6):49S-52S (1990).			
	ZZR	Maliszewski et al., "Induction of B cell activities by interleukin 4 is inhibited by a receptor-specific monoclonal antibody in vitro", Eur. J. Immunol., 20:1735-1740 (1990).			
	AAAR	Yanagihara et al., "Suppression of IgE production by IPD-1151T (suplatast tosilate), a new dimethylsulfonium agent: (1). Regulation of murine IgE response", Jpn J. Pharmacol., 61:23-30 (1993).			
	BBBR	Hjalstrom et al., "No role of interleukin-4 in CD23/IgE-mediated enhancement of the murine antibody response in vivo", Eur. J. Immunol., 25:1469-1472 (1995).			
	CCCR	Escura et al., Immunol., 86:343-350 (1995).			
✓	DDDR	Gustavsson et al., "CD23/IgE-mediated regulation of the specific antibody response in vivo", J. Immunol., 152(10):4793-4800 (1994).			

Dr. N. H.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Date:	Page	Applicant:	Appin. No.:
OTHER (Continued)		October 30, 2003	3 of 4	REFF et al.	09/292,053
		Client Ref. No.:	Atty. Dkt. No.:	Examiner:	Group Art Unit:
		1997-30-0565D1	037003-0275739	P. Huynh	1644
PJK	EEER	Yamagihara et al., "Establishment of a sensitive radioimmunoassay for the detection of human IgE-binding factor (soluble CD23)", Int. Arch. Allergy Immunol., 98:189-199 (1992).			
	FFFR	Bonnefoy et al., "Receptors for IgE", Curr. Opin in Immunol., 5:944-9 (1993).			
	GGGR	Burton et al., "Human antibody effector function", Adv. Immunol., 51:1-84 (1992).			
	HHHR	Paul et al., Fundamental Immunology, 705 & 870 (1994).			
	IIIR	Webster's II New Riverside University Dictionary, Houghton-Mifflin Co., Boston, p. 933 (1984).			
	JJJR	Van Noort et al., "Cell Biology of Autoimmune Diseases," Intl. Rev. of Cytology, 178:127-205 (1998).			
	KKKR	Abaza et al., "Effects of Amino Acid Substitutions Outside an Antigenic...", J. Prot. Chem., 11(5):433-444 (1992).			
	LLLL	Plater-Zyberk et al., "Marked amelioration of established collagen-induced arthritis by treatment with antibodies to CD23 in vivo", Nature Medicine, 1(8):781-785 (1995).			
	MMMR	Skolnick et al., "From genes to protein structure and function: novel applications of computational approaches in the genomic era", TIBTECH, 18:34-9 (2000).			
	NNNR	The Merck Manual of Diagnosis and Therapy, 17 th Edition, Beers et al., eds., Whitehouse Station, NJ, pp. 416-422 (1999).			
	OOOR	Busse et al., J. of allergy and Clinical Immunol., 107(2):abstract no. 354 (Feb. 2001).			
	PPPR	Nakamura et al., "In vitro IgE inhibition in B cells by anti-CD23 monoclonal antibodies is functionally dependent on the immunoglobulin Fc domain", Intl. J. of Immunopharmacol., 22:131-41 (2000).			
	QQQR	Yoshikawa et al., "Soluble Fc epsilon RII/CD23 in patients with autoimmune diseases and Epstein-Barr virus-related disorders: analysis by ELISA for soluble Fc epsilon RII/CD23", Immunomethods, 4(1):65-71 (Feb. 1994).			
	RRRR	Muino et al., "The importance of specific IgG and IgE autoantibodies to retinal S antigen, total serum IgE, and sCD23 levels in autoimmune and infectious uveitis", J. clin. Immunol., 19(4):215-222 (Jul. 1999).			
	SSSR	Soh et al., "IgE and its related phenomena in bullous pemphigoid", Br. J. Dermatol. 128(4):371-377 (Apr. 1993).			
	TTTR	Fries et al., "Monocyte receptors for the Fc portion of IgG studies with monomeric human IgG1: normal in vitro expression of Fc gamma receptors in HLA-B8/Drw3 subjects with defective Fc gamma-mediated in vivo clearance", J. Immunol., 129: 1041-1049 (1982).			
	UUUR	Kurlander and Batker et al., "The binding of human immunoglobulin G1 monomer and small, covalently cross-linked polymers of immunoglobulin G1 to human peripheral blood monocytes and polymorphonuclear leukocytes", J. Clin. Invest., 69: 1-8 (1982).			
	VVVR	Woof, "The monocyte binding domain(s) on human immunoglobulin G", Mol. Immunol., 21:523-527 (1984).			
	WWWR	Karas et al., "Characterization of the IgG-Fc receptor on human platelets", Blood, 60:1277-1282 (1982).			
	XXXR	Van de Winkel and Anderson, "Biology of human immunoglobulin G Fc receptors", J. Leuk. Biol., 49:511-524 (1991).			
	YYR	Huizinga et al., "Binding characteristics of dimeric IgG subclass complexes to human neutrophils", J. Immunol., 142:2359-2364 (1989).			
	ZZR	Bosma et al., "A severe combined immunodeficiency mutation in the mouse", Nature, 301:527 (1983).			
	AAAAR	Mosier et al., "Transfer of a functional human immune system to mice with severe combined immunodeficiency", Nature, 335:256 (1988).			
	BBBBR	Mosier et al., "Immunodeficient mice xenografted with human lymphoid cells: new models for in vivo studies of human immunobiology and infectious diseases", J Clin Immunol., 10:185-91 (1990).			
	CCCCR	Abedi et al., "Immunoglobulin production in severe combined immunodeficient (SCID) mice reconstituted with human peripheral blood mononuclear cells", Eur. J. Immunol., 22:823 (1992).			
✓	DDDDR	Mazingue et al., "Obtention of a human primary humoral response against schistosome protective antigens in severe combined immunodeficiency mice after the transfer of human peripheral blood mononuclear cells", Eur. J. Immunol., 21:1763 (1991).			

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OTHER (Continued) OCT 30 2003		Client Ref. No.: 997-30-0565D1	Atty. Dkt. No.: 037003-0275739	Examiner: P. Huynh	Group Art Unit: 1644
PNK	AR	Kilchherr et al., "Regulation of human IgE response in hu-PBL-SCID mice", Cellular Immunology, 151:241 (1993).			
	BR	Spiegelberg et al., "Role of interleukin-4 in human immunoglobulin E formation in hu-PBL-SCID mice", J. Clin. Invest., 93:711 (1994).			
	CR	Carballido et al., "IL-4 induces human B cell maturation and IgE synthesis in SCID-hu mice. Inhibition of ongoing IgE production by in vivo treatment with an IL-4/IL-13 receptor antagonist", J. Immunol., 155:4162 (1995).			
	DR	King et al., "Expression, purification and characterization of a mouse-human chimeric antibody and chimeric Fab' fragment", Biochem J., 281:317-23 (1992).			
	ER	Queen et al., "A humanized antibody that binds to the interleukin 2 receptor", Proc. Nat. Acad. Sci. USA, 86:10029 (1989).			
	FR	Love et al., "Recombinant antibodies possessing novel effector functions", Methods Enzymol., 178:515-27 (1989).			
	GR	Hutzel et al., "Generation and characterization of a recombinant/chimeric B72.3 (human gamma 1)", Cancer Res., 51:181 (1991).			
	HR	Chiang et al., "Direct cDNA cloning of the rearranged immunoglobulin variable region", Biotechniques, 7(4):360-6 (1989).			
	IR	Heinrich et al., "Characterization of a human T cell-specific chimeric antibody (CD7) with human constant and mouse variable regions", J. Immunol., 143:3589 (1989).			
	JR	Hardman et al., "Generation of a recombinant mouse-human chimaeric monoclonal antibody directed against human carcinoembryonic antigen", Int. J. Cancer, 44:424 (1989).			
	KR	Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction", Proc. Nat. Acad. Sci. USA, 86(10):3833-7 (1989).			
	LR	Norman et al., "Reversal of Acute Allograft Rejection With Monoclonal Antibody", Transpl. Proc., 17:39-41 (1985).			
	MR	Sarfati et al., "Elevation of IgE-binding factors in serum of patients with B cell-derived chronic lymphocytic leukemia", Blood, 71:94-98 (1988).			
✓	NR	Saragovi et al., "Design and synthesis of a mimetic from an antibody complementarity-determining region", Science, 262:53(5021):792-5 (1991).			
Examiner		Date Considered: 3/15/04			
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					

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Atty. Dkt. No.	App. No.	Client Ref.
	037003-0275739	1997-30-0565D1

INFORMATION DISCLOSURE STATEMENT
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Applicant: Mitchell E. REFF et al.

Appl. No.: 09/292,053

Filing Date: April 14, 1999

Examiner: P. Huynh

Group Art Unit: 1644

Date: January 5, 2004

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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
PHH	AR 6,001,358	12/1999	Black et al.	424	154.1	
PHH	BR 6,136,310	10/2000	Hanna et al.	424	154.1	

FOREIGN PATENT DOCUMENTS

Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract	Translation Readily Available
CR				Enclosed	No
OR				Enclosed	No

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

PHH	ER	Ngo et al., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox," 1994, <u>The Protein Folding Problem and Tertiary Structure Prediction</u> , Birkhauser Boston, pp. 490-495.
	FR	Boulet et al., "Inhibitory Effects of an Anti-IgE Antibody E25 on Allergen-Induced Early Asthmatic Response," <u>Am J Respir Crit Care Med</u> , (1997) 155:1835-44.
	GR	Casale et al., "Use of an anti-IgE humanized monoclonal antibody in ragweed-induced allergic rhinitis," <u>J Allergy Clin Immunol</u> , (1997), 100:110-120.
	HR	Coyle et al., "Central Role of Immunoglobulin (Ig) E in the Induction of Lung Eosinophil Infiltration and T Helper 2 Cell Cytokine Production: Inhibition by a Non-anaphylactogenic Anti-IgE Antibody," <u>J Exp Med</u> , (1996), 183:1303-1310.
	IR	Fahy et al., "The Effect of an Anti-IgE Monoclonal Antibody on the Early and Late-Phase Responses to Allergen Inhalation in Asthmatic Subjects," <u>Am J Respir Crit Care Med</u> , (1997), 155:1828-34.
	JR	Ohashi et al., "Immunotherapy Affects the Seasonal Increase in Specific IgE and Interleukin-4 in Serum of Patients with Seasonal Allergic Rhinitis," <u>Scand J Immunol</u> , (1997), 46(1):67-77.
	KR	Ohashi et al., "Serum levels of specific IgE, soluble interleukin-2 receptor, and soluble intercellular adhesion molecule-1 in seasonal allergic rhinitis," <u>Annals of Allergy, Asthma, and Immunol</u> , (1997), 79:213-220.
	LR	Ohashi et al., "Ten-Year Follow-Up Study of Allergen-Specific Immunoglobulin E and Immunoglobulin G4, Soluble Interleukin-2 Receptor, Interleukin-4, Soluble Intercellular Adhesion Molecule-1 and Soluble Vascular Cell Adhesion Molecule-1 in Serum of Patients on Immunotherapy for Perennial Allergic Rhinitis," <u>Scand J Immunol</u> , (1998), 47:167-178.
	MR	Peebles et al., "Ragweed-specific antibodies in bronchoalveolar lavage fluids and serum before and after segmental lung challenge: IgE and IgA associated with eosinophil degranulation," <u>J Allergy Clin Immunol</u> , (1998), 101:265-273.
	NR	Pullerits et al., "An intranasal glucocorticoid inhibits the increase of specific IgE initiated during birch pollen season," <u>J Allergy Clin Immunol</u> , (1997), 100:601-605.
	OR	Reff et al., "Depletion of B Cells In Vivo by a Chimeric Mouse Human Monoclonal Antibody to CD20," <u>Blood</u> , (1994), 83:435-445.
	PR	Ward E.S. and Ghetie V., "The effector functions of immunoglobulins: implications for therapy," 1995, <u>Therapeutic Immunology</u> , 2:77-94.

Examiner

Date Considered:

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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